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1 Reducing I/O demand in video-on-demand storage servers

Leana Golubchik, John C. S. Lui, Richard Muntz

May 1995 ACM SIGMETRICS Performance Evaluation Review , Proceedings of the conference on Measurement and modeling of computer systems, Volur

Full text available: pdf(1.37 MB)

Additional Information: full citation, abstract, references,

Recent technological advances have made multimedia on-demand services, such as home-shopping, important to the consumer market. One of the most challenging issues in providing access either instantaneously or within a small and reasonable latency is a novel approach, termed adaptive piggybacking, which can be used to provide content to a user and at the same time reduce the I/O demand on the ...

2 Technical reports

SIGACT News Staff

January 1980 ACM SIGACT News, Volume 12 Issue 1

Full text available: pdf(5.28 MB) Additional Information: full citation

3 Staggered striping in multimedia information systems

Steven Berson, Shahram Ghandeharizadeh, Richard Muntz, Xiangyu Ju

May 1994 ACM SIGMOD Record , Proceedings of the 1994 ACM SIGMOD international conference , Volume 23 Issue 2

Full text available:  pdf(1.20 MB)

Additional Information: full citation, abstract, references,

Multimedia information systems have emerged as an essential component of library information systems to entertainment technology. However, most implementations support the continuous display of multimedia objects and suffer from frequent seek times due to the low I/O bandwidth of the current disk technology, the high bandwidth required and the large sizes of the objects. This paper presents a new disk scheduling algorithm, called staggered striping, which attempts to reduce seek times by overlapping the seek times of adjacent tracks. The algorithm is designed to be simple and easy to implement, and it can be used in conjunction with existing disk scheduling algorithms. The performance of the algorithm is evaluated using a simulation model, and it is shown to be effective in reducing seek times and improving the overall performance of the system.

4 On-line extraction of SCSI disk drive parameters

Bruce L. Worthington, Gregory R. Ganger, Yale N. Patt, John Wilkes

May 1995 ACM SIGMETRICS Performance Evaluation Review , Proceedings of the conference on Measurement and modeling of computer systems, Volume 23 Issue 2

Full text available:  pdf(1.21 MB)

Additional Information: full citation, abstract, references,

Sophisticated disk scheduling algorithms require accurate, detailed disk drive models. These models must account for mechanical delays, on-board caching and prefetching algorithms, command and data transfer times, logical-to-physical block mappings. Comprehensive disk models used in storage management systems are difficult to obtain in detail. We describe a suite of general-purpose algorithms and techniques for automatically extracting parameters of a SCSI disk drive. Using only the ANSI-standard SCSI interface, we can extract parameters such as seek times, transfer times, and cache sizes. The extracted parameters are used to build a detailed disk model that can be used in storage management systems.

5 Distributed systems - programming and management: On remote procedure calls

Patrícia Gomes Soares

November 1992 Proceedings of the 1992 conference of the Centre for Advanced Studies in Parallel and Distributed Systems, Volume 1

Full text available:  pdf(4.52 MB)

Additional Information: full citation, abstract, references,

The Remote Procedure Call (RPC) paradigm is reviewed. The concept is described and the mechanisms that support it. An overview of works in supporting these mechanisms is given. The mechanisms that have been proposed to enlarge its suitability, are studied. The paper also presents a standard view and classification of RPC mechanisms according to different perspectives. The use today and of goals for the future of the RPC paradigm is discussed.

6 Building reliable mobile-aware applications using the Rover toolkit

Anthony D. Joseph, M. Frans Kaashoek

October 1997

Wireless Networks, Volume 3 Issue 5

Full text available:  pdf(371.04 KB)

Additional Information: full citation, abstract, references,

This paper discusses extensions to the Rover toolkit for constructing reliable mobile-aware applications. The extensions improve upon the existing failure model, which addresses client or communication failures but does not address server failures (due to server failure) (Joseph et al., 1997). Due to the unpredictable, intermittent nature of failures in mobile client environments, the failure model must be able to handle both client and server failures. The extensions to the Rover toolkit provide a failure model that can handle both client and server failures. The failure model is based on a combination of client and server failure detection and recovery mechanisms. The failure model is designed to be simple and easy to implement, and it can be used in conjunction with existing failure detection and recovery mechanisms. The performance of the failure model is evaluated using a simulation model, and it is shown to be effective in handling both client and server failures.

7 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 Proceedings of the 1997 conference of the Centre for Advanced S

Full text available: [pdf](#)(4.21 MB)

Additional Information: full citation, abstract, references

Understanding distributed applications is a tedious and difficult task. Visualization is often used to obtain a better understanding of the execution of the application. An event tracer developed at the University of Waterloo. However, these diagrams do not help the user with the desired overview of the application. In our experience, such diagrams are not helpful for non-trivial commun ...

8 Building reliable mobile-aware applications using the Rover toolkit

Anthony D. Joseph, M. Frans Kaashoek

November 1996 Proceedings of the 2nd annual international conference on Mobile c

Full text available: [pdf](#)(1.36 MB)

Additional Information: full citation, references, citations, index

9 An efficient deadline-credit-based transport scheme for prerecorded semi

Zoe Antoniou, Ioannis Stavrakakis

October 2002 IEEE/ACM Transactions on Networking (TON), Volume 10 Iss

Full text available: [pdf](#)(409.93 KB)

Additional Information: full citation, abstract, references

In this paper, an efficient scheme is proposed based on the introduced deadline-credit scheme. The scheme is appropriate for any prerecorded media, but is particularly relevant for prerecorded media applications. Semisoft are applications with very small initial delay tolerance and the content may be sent in advance. The proposed policy pushes content toward the advantage of any bandwidth ...

Keywords: application data unit, continuous media applications, deadline credit

10 System support for pervasive applications

Robert Grimm, Janet Davis, Eric Lemar, Adam Macbeth, Steven Swanson, Thomas Borriello, Steven Gribble, David Wetherall

November 2004 ACM Transactions on Computer Systems (TOCS), Volume 2.

Full text available: [pdf\(1.82 MB\)](#)

Additional Information: full citation, abstract, reference

Pervasive computing provides an attractive vision for the future: power will be available everywhere. Mobile and stationary devices coordinate to seamlessly help people in accomplishing their tasks. In reality, developers must build applications that constantly adapt to their environment. To make the developers' task feasible, we present a support for pervasive computing, called & ...

Keywords: Asynchronous events, checkpointing, discovery, log, one-world, pervasive computing, structured I/O, tuples, ubiquitous computing

11 Flowcharting With the ANSI Standard: A Tutorial

Ned Chapin

June 1970 ACM Computing Surveys (CSUR), Volume 2 Issue 2

Full text available: [pdf\(2.22 MB\)](#) Additional Information: full citation, references, citations, index terms

12 System-level power optimization: techniques and tools

Luca Benini, Giovanni de Micheli

April 2000 ACM Transactions on Design Automation of Electronic Systems (TODAES)

Full text available: [pdf\(385.22 KB\)](#)

Additional Information: full citation, abstract, reference

This tutorial surveys design methods for energy-efficient system-level design. We focus on the system-level power optimization, which spans across the hardware platform and software layers. We consider the three major constituents of a system, namely computation, communication, and storage units, and we review methods for their power optimization. We also study models for analyzing the energy cost of software, and methods for their optimization. This survey ...

13 ARIES: a transaction recovery method supporting fine-granularity locking logging

C. Mohan, Don Haderle, Bruce Lindsay, Hamid Pirahesh, Peter Schwarz

March 1992 ACM Transactions on Database Systems (TODS), Volume 17 Issue 1

Full text available: [pdf\(5.23 MB\)](#)

Additional Information: full citation, abstract, references, citations

DB2TM, IMS, and TandemTM systems. ARIES is applicable not only to database persistent object-oriented languages, recoverable file systems and transaction- implemented, to varying degrees, in IBM's OS/2TM Extended Edition Database Facility/VM, Starburst and QuickSilver, and in the University of Wisconsin's EXC

Keywords: buffer management, latching, locking, space management, write-at

14 Image Retrieval from the World Wide Web: Issues, Techniques, and Systems

M. L. Kherfi, D. Ziou, A. Bernardi

March 2004 ACM Computing Surveys (CSUR), Volume 36 Issue 1

Full text available: [pdf\(294.13 KB\)](#)

Additional Information: full citation, abstract, references, citations

With the explosive growth of the World Wide Web, the public is gaining access. However, locating needed and relevant information remains a difficult task, wh Text search engines have existed for some years now and have achieved a cer the large number of images available on the Web, image search engines are st order to allow people to profi ...

Keywords: Image-retrieval, World Wide Web, crawling, feature extraction and search, similarity

15 Pen computing: a technology overview and a vision

André Meyer

July 1995

ACM SIGCHI Bulletin, Volume 27 Issue 3

Full text available: [pdf\(5.14 MB\)](#)

Additional Information: full citation, abstract, references, citations

This work gives an overview of a new technology that is attracting growing interest in the industry itself. The visible difference from other technologies is in the use of a pen for interaction between a user and a machine, picking up the familiar pen and paper. A set of consequences that will be analyzed and put into context with other emerging technologies. A short historic ...

16 Status report of the graphic standards planning committee

Computer Graphics staff

August 1979 ACM SIGGRAPH Computer Graphics, Volume 13 Issue 3

Full text available: [pdf\(15.01 MB\)](#) Additional Information: full citation, references, citations

17 Data and memory optimization techniques for embedded systems

P. R. Panda, F. Catthoor, N. D. Dutt, K. Danckaert, E. Brockmeyer, C. Kulkarni, A
April 2001 ACM Transactions on Design Automation of Electronic Systems (TODA)
Full text available: [pdf](#)(339.91 KB) Additional Information: full citation, abstract, references

We present a survey of the state-of-the-art techniques used in performing data
embedded systems. The optimizations are targeted directly or indirectly at the
more out of three important cost metrics: area, performance, and power dissip
first examine architecture-independent optimizations in the form of code trans
spectrum of optimizati ...

Keywords: DRAM, SRAM, address generation, allocation, architecture explorati
optimization, high-level synthesis, memory architecture customization, memor
estimation, survey

18 Log files: an extended file service exploiting write-once storage

R. Finlayson, D. Cheriton
November 1987 ACM SIGOPS Operating Systems Review , Proceedings of the eleve
principles, Volume 21 Issue 5
Full text available: [pdf](#)(1.07 MB) Additional Information: full citation, abstract, references,

A log service provides efficient storage and retrieval of data that is written seq
subsequently modified. Application programs and subsystems use log services
and for performance monitoring. Ideally, a log service should accommodate ve
efficient retrieval and low space overhead.In this paper, we describe the design
service. Clio pr ...

19 Level II technical support in a distributed computing environment

Tim Leehane
September 1996 Proceedings of the 24th annual ACM SIGUCCS conference on User
Full text available: [pdf](#)(5.73 MB) Additional Information: full citation, references, index terms

20 Articles: A context-aware methodology for very small data base design

C. Bolchini, F. A. Schreiber, L. Tanca
March 2004 ACM SIGMOD Record, Volume 33 Issue 1
Full text available: [pdf](#)(381.70 KB) Additional Information: full citation, abstract

The design of a Data Base to be resident on portable devices and embedded pi
considering both the device memory peculiarities and the mobility aspects, whi
embedded applications. Moreover, these devices are often part of a larger Info
mobile resources. We propose a complete methodology for designing Very Smi
device resident portions down to ...

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